

What is claimed is:

1. An operation determination apparatus for  
determining an operation mode when a failure occurs  
5 in a system, comprising:

a determination device determining which operation mode should be selected, a system-down mode to stop the system or a dynamic degeneracy mode to prohibit a use of a part where the failure occurred and to continue an operation of the system; and

an operation device performing an operation corresponding to the determined operation mode.

2. The operation determination apparatus according to claim 1, wherein said determination device includes a device judging which operation mode should be selected, the system-down mode or the dynamic degeneracy mode, for each device/group included in the system.

20 3. The operation determination apparatus according to claim 1, wherein said determination device includes a device judging which operation mode should be selected, the system-down mode or the dynamic degeneracy mode, for each device control unit included in the system.

25

8. The operation determination apparatus according to  
25 claim 5, wherein said setting device includes a device

e operation mode for e  
tem.

ation determination ap  
herein said determinat  
ecking whether another  
d by the part where th  
which operation mode  
-down mode or the dyna  
device is affected b

operation / determinat  
g an operation mode wh  
n, comprising:

determination device  
mode should be selecte  
on modes, including at  
p the system and a dyn  
a use of a part where  
tinue an operation of  
operation device perfe  
ing to the determined

uter-readable storage  
program for enabling

10

ication of  
in operati  
comprising  
termination  
e should  
nodes, in  
he system  
use of a p

20

an operation device performing an operation  
 responding to the determined operation mode.

25

determining which operation mode should be selected, a system-down mode to stop the system or a dynamic degeneracy mode to prohibit a use of a part where the failure occurred and to continue an operation of the system.

detecting the failure of the system;

performing an operation corresponding to the  
determined operation mode.

Sub C11

13. A notification apparatus, comprising  
a notification device notifying, when a failure  
occurs in a system and use of a failed device is  
prohibited, a device control unit that performs control  
over the failed device, of a prohibition of use of the

failed device by enabling the device control unit to access the failed device.

14. The notification apparatus according to claim 13,  
5 wherein said notification device includes a pseudo-interrupt issuance device making the device control unit access the failed device by issuing a pseudo-interrupt to the device control unit and calling up an interrupt process of the device control unit.

10 15. The notification apparatus according to claim 13, wherein said notification device includes an access instruction issuance device making the device control unit access the failed device by issuing an access  
15 instruction to the device control unit and calling up an access process of the device control unit.

16. The notification apparatus according to claim 13,  
20 further comprising a notification judgment device judging whether the device control unit should be notified of the prohibition of use of the failed device.

17. The notification apparatus according to claim 16,  
25 wherein said notification judgment device includes a device judging whether a device control unit should

09723768:412800

18. The notification apparatus according to claim 16,  
5 wherein said notification judgment device includes a  
device judging whether a device control unit should  
be notified of a prohibition of use of a failed device  
for each device control unit that performs control over  
a device included in the system.

19. The notification apparatus according to claim 16,  
wherein said notification judgment device includes a  
device judging whether a device control unit should  
be notified of a prohibition of use of a failed device  
for each device included in the system.

21. The notification apparatus according to claim 20,  
25 wherein said setting device includes a device setting

the information for each device group included in the system.

22. The notification apparatus according to claim 20,  
5 wherein said setting device includes a device setting  
the information for each device control unit that  
performs control over a device included in the system.

23. The notification apparatus according to claim 20,  
10 wherein said setting device includes a device setting  
the information for each device included in the system.

24. The notification apparatus according to claim 16,  
further comprising a confirmation device checking  
15 whether another device in the system is affected by  
the failed device, said system prohibiting use of a  
device affected by the failed device and said  
notification judgment device judging whether a device  
control unit that performs control over the affected  
20 device should be notified of the prohibition of use  
of the affected device.

25. The notification apparatus according to claim 16,  
further comprising a confirmation device checking  
25 whether another device in the system is affected by

09723758 112800

✓

device.

ification apparatus, c  
tification device char  
a system and use of  
, a state of the fail  
ner system related to  
a prohibition of use o  
uter-readable storage  
program for enabling  
fying, when a failure o  
iled device is prohibi  
performs control over  
ion of use of the fai  
control unit access  
uter-readable storage  
program for enabling  
ging, when a failure o  
iled device is prohibi  
ice to a state where an  
iled device can recogn  
failed device.

a notification device changing, when a failure

5 occurs in a system and use of a failed device is prohibited, a state of the failed device to a state where another system related to the failed device can recognize a prohibition of use of the failed device.

27. A computer-readable storage medium on which is recorded a program for enabling a computer to perform notifying, when a failure occurs in a system and use of a failed device is prohibited, a device control unit that performs control over the failed device, of a prohibition of use of the failed device by making the device control unit access the failed device.

28. A computer-readable storage medium on which is recorded a program for enabling a computer to perform

20           changing, when a failure occurs in a system and  
use of a failed device is prohibited, a state of the  
failed device to a state where another system related  
to the failed device can recognize a prohibition of  
use of the failed device.



prohibiting use of a failed device when a failure occurs in a system; and

notifying a device control unit that performs control over the failed device, of the prohibition of use of the failed device by making the device control unit access the failed device.

prohibiting use of a failed device when a failure occurs in a system; and

changing a state of the failed device to a state where another system related to the failed device can recognize the prohibition of use of the failed device.

31. An operation determination apparatus for determining an operation mode when a failure occurs in a system, comprising:

determination means for determining which operation mode should be selected, a system-down mode to stop the system or a dynamic degeneracy mode to prohibit use of a part where the failure occurred and to continue an operation of the system; and

operation means for performing an operation corresponding to the determined operation mode.

32. A notification apparatus, comprising:

prohibition means for prohibiting use of a failed device when a failure occurs in a system; and

5 notification means for notifying a device control unit that performs control over the failed device of the prohibition of use of the failed device by making the device control unit access the failed device.

10

33. A notification apparatus, comprising:

prohibition means for prohibiting use of a failed device when a failure occurs in a system; and

15 notification means for changing a state of the failed device to a state where another system related to the failed device can recognize the prohibition of use of the failed device.

20 34. A transmission medium for transmitting to a computer a program for enabling the computer, which determines an operation mode when a failure occurs in a system, to perform

judging which operation mode should be selected, a system-down mode to stop the system or a dynamic degeneracy mode to prohibit use of a part where the  
25

00723768-112300

failure occurred and to continue an operation of the system.

35. A transmission medium for transmitting to a computer  
5 a program for enabling the computer to perform  
notifying, when a failure occurs in a system and  
use of a failed device is prohibited, a device control  
unit that performs control over a failed device, of  
a prohibition of use of the failed device by making  
10 the device control unit access the failed device.

36. A transmission medium for transmitting to a computer  
a program for enabling the computer to perform  
changing, when a failure occurs in a system and  
15 use of a failed device is prohibited, a state of the  
device to a state where another system related to the  
failed device can recognize a prohibition of use of  
the failed device.

00723768-112300